

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A system for changing one or more physical layer communications parameters as configured in a physical layer device, the system comprising:

 a first interface for receiving the parameters; and

 a serial interface that

 stores the parameters in advance of sending the parameters to the physical layer device, [[and]]

stores a predetermined changeover time; and

 sends the parameters to the physical layer device at [[a]] the predetermined changeover time.

2. (Original) The system of claim 1, wherein said first interface is a peripheral component interconnect (PCI) interface.

3. (Original) The system of claim 1, wherein said serial interface is a serial peripheral interface (SPI).

4. (Original) The system of claim 1, further comprising:
 a central processing unit (CPU) that sends the parameters to said first interface.

5. (Currently Amended) The system of claim 1, wherein said serial interface comprises:

a transmit first-in first-out (FIFO) queue in which the parameters are stored;

a serial interface port through which the parameters are sent to the physical layer device; and

one or more control registers for storing ~~an indication of said predetermined~~ changeover time ~~at which the parameters are to be sent from said transmit queue to the physical layer device.~~

6. (Original) The system of claim 5, wherein said control registers further store a channel identifier, which corresponds to a communications channel to which the parameters pertain.

7. (Original) The system of claim 1, wherein the physical layer communications parameters correspond to a burst profile.

8. (Original) A method of changing one or more physical layer communications parameters in a physical layer device, comprising the steps of:

- (a) receiving the parameters;
- (b) storing the parameters in a serial interface;

(c) receiving a point in time at which the parameters are to
changeover;

(d) storing the changeover point in the serial interface; and

(e) at the changeover point, writing the parameters to the
physical layer device.

9. (Original) The method of claim 8, wherein the parameters correspond to a
burst profile.

10. (Original) The method of claim 8, wherein said step (b) comprises the step of
storing the parameters in a transmit first-in first-out (FIFO) queue in the serial interface.

11. (Original) The method of claim 8, wherein the changeover point is expressed
in terms of a minislot count.

12. (Original) The method of claim 8, wherein said step (d) comprises storing an
indication of the changeover point in one or more control registers of the serial interface.

13. (Original) The method of claim 8, wherein said step (e) comprises writing
the parameters to the physical layer device via a serial interface port in the serial
interface.

14. (Original) The method of claim 8, further comprising the step of:

(f) receiving periodic updates of the current time,
performed before step(e).

15. (Original) The method of claim 14, wherein the periodic updates are minislot
counts.